

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2	US-6403665-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/06 07:57
L3	2	US-5143945-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/06 07:57
L4	2	US-3954684-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/06 08:02
L5	33	("3487080"   "3745133"   "3849349").PN. OR ("3954684").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/06 08:11
S1	9	US-5691440-\$.DID. OR US-3862150-\$.DID. OR US-5436336-\$.DID. OR US-2631733-\$. DID. OR US-4040992-\$.DID. OR US-2916201-\$.DID. OR US-4454317-\$.DID. OR US-9312153-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/14 15:26
S2	1	"10589659"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/14 15:27
S3	72311	quaternary near ammonium near salts	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:31
S4	3671131	organic acids	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:31

## EAST Search History (Prior Art)

S5	4874	(quaternary near ammonium near salts) same organic adj acid	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:32
S6	4874	(quaternary near ammonium near salts) same (organic adj acid)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:32
S7	163	S6 and (trimer or trimerization)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:32
S8	61	S7 and isocyanurate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:33
S9	41	"3980594"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 08:37
S10	44	"2993870"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 11:16
S11	42	"3657161"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 11:20
S12	3	S9 and (dibutyl adj phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 11:42

## EAST Search History (Prior Art)

S13	0	S6 and (glycolic and gluconic and citramalic and benzilic and mandelic and tartaric)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:30
S14	113	(glycolic and gluconic and citramalic and benzilic and mandelic and tartaric)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:30
S15	65891	acid adj (glycolic or lactic or benzilic or gluconic)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:52
S16	0	S15 near ammonium	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:52
S17	10302	S15 same ammonium	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:52
S18	9	S17 same isocyanurate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:53
S19	6839	(ammonium adj salt) and isocyanurate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:56
S20	2211	S19 and (glycolic or lactic or citric or malic or tartaric or benzilic)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:57

## EAST Search History (Prior Art)

S21	1	S19 and (glycolic and lactic and citric and malic and tartaric and benzoic)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:57
S22	201	S19 and (glycolic and lactic and citric)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:57
S23	2	S19 and (glycolic and lactic and citric and benzoic)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:58
S24	33	S19 and (glycolic and lactic and citric and gluconic)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 13:58
S25	15	"3726816"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/15 14:04
S26	1	"10589659"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/26 08:46
S27	1	"10589659"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 10:26
S28	1	"10589659"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 11:05

## EAST Search History (Prior Art)

S29	3	"20060172225"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 11:39
S30	1	EP-630928-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 11:42
S31	1	DE-2631733-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 11:43
S32	30	("2978449"   "3645979"   "3745133"   "3980594"   "3981829"   "3993223"   "4040992"   "4067830"   "4115373"   "4324879"   "4412073"   "4454317"   "4614785"   "4801663"   "4960848"   "5070137"   "5124427"   "5436336").PN. OR ("5691440").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:13
S33	77	("2842506"   "2932621"   "3010963"   "3892687"   "B490946"   "B497194").PN. OR ("4040992").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:17
S34	5	("4994541"   "5237058").PN. OR ("5436336").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:17
S35	0	"10516074"	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:21
S36	1	"10469846"	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:22
S37	1	US-4537961-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:23
S38	2	JP-02110123-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 12:26

## EAST Search History (Prior Art)

S39	11	("3995997"   "4288586"   "4454317"   "4596679"   "5436336"   "5798431").PN. OR ("6093817").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:44
S40	16	("3954684"   "3980594"   "4040992"   "4748242"   "4960848"   "5240970"   "5288864"   "5298431"   "5641726"   "5691440"   "5696292"   "6093817"   "6452003"   "6552154"   "6613863").PN. OR ("7001973").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 12:52
S41	19	("3127404"   "3193515"   "3862150"   "4040992"   "4111914"   "4335219"   "4503226"   "4542214"   "4904629"   "5086081").PN. OR ("5288864").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 13:13
S42	46	("2866802"   "3487080"   "3657161"   "3711444"   "3715337"   "3817939").PN. OR ("3980594").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 13:18
S43	59	("2932621"   "3385806"   "3728291"   "3892687"   "3988267"   "3993652"   "4007140"   "4025466"   "4040992"   "4049591"   "4086213"   "4101465"   "4116879"   "4165412"   "4175097"   "4204062"   "4211849"   "4232152"   "4286072"   "4366084"   "4419461"   "4421869"   "4450246"   "4464488"   "4469653"   "4563484"   "4582861"   "4617286"   "4621106"   "4701474"   "4758605"   "4780485"   "4785025"   "4785027"   "4880848"   "4935453"   "5006501"   "5168009"   "5179131"   "5240970"   "5252624"   "5288833"   "5288864"   "5304578"   "5306738"   "5308882"   "5321050"   "5478494"   "5591781"   "5859079"   "6114403"   "6232356"   "6387972"   "6395796"   "6423756"   "6660781").PN. OR ("6818675").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 13:51
S44	24	S43 and (isocyanurate or trimer\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 14:00
S45	6	"9312153"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:13
S46	4	"03020784"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:17

## EAST Search History (Prior Art)

S47	2	"20040186194"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:19
S48	2	US-5143945-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:21
S49	2	US-5688835-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:22
S50	0	"20020972443"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:26
S51	4	"2002097244"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:26
S52	2	US-3862150-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/21 16:33
S57	2	US-4632785-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:09

## EAST Search History (Prior Art)

S58	2	US-4540781-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:10
S59	93236	(trimer\$ or isocyanurate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:48
S60	31943	S59 and \$isocyanate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:48
S61	38140	S59 and (ammonium)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:49
S62	14619	S60 and (ammonium)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:49
S63	387377	S62 and hydroxy near3 carboxylic with acid or (glycolic or lactic or citric or methyl\$lactic or hydroxy\$butyric or hydroxy near3 methyl\$butyric or gluconic or citramalic or saccharic or ribonic or benzilic or quinic or mandelic or glucuronic or tartaric or malic or hydroxy\$caproic or phenyl\$lactic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:51
S64	5476	S62 and (hydroxy near3 carboxylic with acid or (glycolic or lactic or citric or methyl\$lactic or hydroxy\$butyric or hydroxy near3 methyl\$butyric or gluconic or citramalic or saccharic or ribonic or benzilic or quinic or mandelic or glucuronic or tartaric or malic or hydroxy\$caproic or phenyl\$lactic))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:52

## EAST Search History (Prior Art)

S65	2350	S64 and (cyclo\$aliphatic or aliphatic) with \$5isocyanate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:53
S66	2132	S65 and (((hexane or hexamethylene) with \$5isocyanate) or (isophorone with \$5isocyanate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:54
S67	239	S66 and ((trimer\$ or isocyanurate).ti. or (trimer\$ or isocyanurate).clm. or (trimer\$ or isocyanurate).ab.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:55
S68	206	S67 and @ad<"20050310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:56
S69	111187	ammoni\$ same3 (hydroxy near3 carboxylic with acid or (glycolic or lactic or citric or methyl\$lactic or hydroxy\$butyric or hydroxy near3 methyl\$butyric or gluconic or citramalic or saccharic or ribonic or benzilic or quinic or mandelic or glucuronic or tartaric or malic or hydroxy\$caproic or phenyl\$lactic))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:59
S70	7105	S69 and (trimer\$ or isocyanurate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:59
S71	2574	S70 and \$5isocyanate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 08:59

## EAST Search History (Prior Art)

S72	1598	S71 and (((hexane or hexamethylene) with \$5isocyanate) or (isophorone with \$5isocyanate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 09:00
S73	1268	S72 and @ad<"20050310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 09:00
S74	16	(US-20070112085-\$ or US-20070197759-\$ or US-20040186194-\$).did. or (US-4040992-\$ or US-3862150-\$ or US-4220727-\$ or US-4540781-\$ or US-4771025-\$ or US-5278120-\$ or US-6207725-\$ or US-3980594-\$ or US-7579426-\$ or US-6660781-\$ or US-6365655-\$).did. or (JP-2002097244-\$).did. or (US-3980594-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/10/22 09:11
S75	16	(US-20070112085-\$ or US-20070197759-\$ or US-20040186194-\$).did. or (US-4040992-\$ or US-3862150-\$ or US-4220727-\$ or US-4540781-\$ or US-4771025-\$ or US-5278120-\$ or US-6207725-\$ or US-3980594-\$ or US-7579426-\$ or US-6660781-\$ or US-6365655-\$).did. or (JP-2002097244-\$).did. or (US-3980594-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/10/22 09:11
S76	3	S75 and chlorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/22 09:48
S77	15	(US-20070112085-\$ or US-20070197759-\$ or US-20040186194-\$).did. or (US-4040992-\$ or US-3862150-\$ or US-4220727-\$ or US-4540781-\$ or US-4771025-\$ or US-5278120-\$ or US-6207725-\$ or US-3980594-\$ or US-7579426-\$ or US-6660781-\$).did. or (JP-2002097244-\$).did. or (US-3980594-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/10/22 09:49

## EAST Search History (Prior Art)

S81	1	"10589659"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/02/02 08:51
S82	2	US-6063826-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/02/02 09:07
S83	2	US-5171787-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/02/02 09:17
S84	322	544/222	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/02/02 09:18
S85	306	S84 and @ad<"20040312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/02/02 09:19
S86	2	US-6765111-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:03
S87	12	("3487080"   "4324879"   "4412073"   "4419513"   "4487928"   "4537961"   "4582888"   "4604418"   "4675401").PN. OR ("6765111").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/25 08:07
S88	0	EP-630928-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/25 08:12

## EAST Search History (Prior Art)

S89	1	EP-630928-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:12
S90	480	544/193 544/222	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:17
S91	450	S90 and @ad<"20040312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:17
S92	2	US-4040992-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:19
S93	24758	(alpha\$hydroxy\$3 or alpha adj hydroxy\$3) near4 acid or (" AHA")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:29
S94	1938	S93 and \$8isocyanate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:30
S95	86232	(trimer or trimerization or isocyanurate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:30

## EAST Search History (Prior Art)

S96	87269	(trimer or trimerization or \$5isocyanurate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:30
S97	1053	S93 and S96	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:30
S98	269901	\$8isocyanate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:31
S99	304	S93 same2 S98	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:31
S10 0	76	S97 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:31
S10 1	57	S100 and @ad<"20040312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:35
S10 2	294	544/221	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:37

## EAST Search History (Prior Art)

S10 3	1041	528/52 528/53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:38
S10 4	544	S96 and S103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:38
S10 5	512	S104 and @ad<"20040312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 08:38